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PN - EF0916568 A 19990519
 PD - 1999-05-19
 PR - DE19971050585 19971117
 OPD - 1997-11-17
 TI - Actuator for generating an additional steering angle for motor vehicles
 AB - The actuator has an electric motor controlled by a microprocessor and driving a transmission to create the auxiliary steering angle. The transmission is a true-pitch planet-roll-winding-spindle transmission (TPRWS) (12), consisting of a spindle rod (16) with a spindle nut (14) round it and a number of roll or roller bodies (18) with groove profile (19) to fit the windings (17) of the spindle rod. The roll bodies are mounted over a number of guide rings (20) and bearings at a fixed spacing from each other. The spindle rod serves as the armature of the electric motor. The transmission has a spindle rod position sensor with feedback.
 IN - ACKERMANN JUERGEN PROF DR (DE); DIETRICH JOHANNES (DE); GOMBERT BERND (DE); BUENTE TILMANN (DE); WILLBERG BERTRAM (DE)
 PA - DEUTSCH ZENTR LUFT & RAUMFAHRT (DE)
 EC - B62D5/04 ; B62D6/04 ; F16H25/22C
 IC - B62D6/00 ; B62D5/04
 CT - DE19540634 C [YD]; DE3739059 A [YD]; EF0480159 A [Y]; DE4102595 A [Y]; DE4103067 A [Y]; EF0340823 A [Y]; JF6219303 A [A]
 CTNP - [A] PATENT ABSTRACTS OF JAPAN vol 18, no. 589 (M-1701), 10. November 1994 (1994-11-10) -& JP06 219303 A (TOYODA MACH WORKS LTD; OTHERS), 9. August 1994 (1994-08-09)

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TI - Actuator to create auxiliary steering angle
 PR - DE19971050585 19971117
 PN - US6343671 B1 20020205 DW200211 B62D5/04 000pp
 - EF0916568 A2 19990519 DW199927 B62D6/00 Ger 020pp
 - DE19750585 A1 19990602 DW199928 B62D5/04 000pp
 - EF0916568 B1 20010711 DW200140 B62D6/00 Ger 000pp
 - DE39800989G G 20010816 DW200148 B62D6/00 000pp
 - ES2158639T T3 20010901 DW200161 B62D6/00 000pp
 PA - (DELF) DEUT ZENT LUFT & RAUMFAHRT EV
 IC - B62D3/02 ; B62D5/00 ; B62D5/04 ; B62D6/00
 IN - ACKERMANN J; BUENTE T; DIETRICH J; GOMBERT B; WILLBERG B
 AB - EP916568 NOVELTY - The actuator has an electric motor controlled by a microprocessor and driving a transmission to create the auxiliary steering angle. The transmission is a true-pitch planet-roll-winding-spindle transmission (TPRWS) (12), consisting of a spindle rod (16) with a spindle nut (14) round it and a number of roll or roller bodies (18) with groove profile (19) to fit the windings (17) of the spindle rod.
 - DETAILED DESCRIPTION - The roll bodies are mounted over a number of guide rings and bearings at a fixed spacing from each other. The spindle rod serves as the

armature of the electric motor. The transmission has a spindle rod position sensor with feedback.

- USE - Actuator for steering system in road vehicle.
- ADVANTAGE - Permits finer adjustment.
- DESCRIPTION OF DRAWING(S) - The drawing shows an axially cutaway view of a true-pitch planet-roll-winding-spindle transmission.
- Transmission 12
- Spindle nut 14
- Spindle rod 16
- Windings 17
- Roll bodies 18
- Groove profile 19
- Guide rings 20
- (Dwg. 2/13)

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OPD - 1997-11-17

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